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COUNTY OF LAKE
PUBLIC WORKS DEPARTMENT
Courthouse - 255 N. Forbes Street
Lakeport, California 95453
Telephone (707) 263-2341 or 994-4824
FAX (707) 263-7748

G. R. SHAUL
Public Works Director

July 1, 1998

CALFED Bay-Delta Program Office
1416 Ninth Street, Suite 1155
Sacramento, CA 95814

SUBJECT: Ecosystem Restoration Programs
Local Watershed Stewardship

Enclosed are ten copies of our proposal for funding of the Upper Putah Creek Watershed Management Plan.

If you have any questions, please call me at (707)263-2341.

Sincerely,

Robert L. A. Lossius
Deputy Director – Water Resources

RLAL:TRS:trs

Enclosures

cc: Helen Whitney, Upper Putah Creek Stewardship
Supervisor Robey
Adrienne Carter, U. S. Army Corps of Engineers
Bill Cunningham, NRCS

I-010836

Attachment H

COVER SHEET (PAGE 1 of 2)

May 1998 *CALFED* ECOSYSTEM RESTORATION PROPOSAL SOLICITATION

Proposal Title: Upper Putah Creek Watershed Management Plan

Applicant Name: Lake County Flood Control and Water Conservation District

Mailing Address: 255 N. Forbes St., Lakeport, CA 95453

Telephone: 707/263-2341

Fax: 707/263-7748

Amount of funding requested: $ 200,000 for 2 years

Indicate the Topic for which you are applying (check only one box). Note that this is an important decision: see page 55 of the Proposal Solicitation Package for more information.

- ☐ Fish Passage Assessment
- ☐ Fish Passage Improvements
- ☐ Floodplain and Habitat Restoration
- ☐ Gravel Restoration
- ☐ Fish Harvest
- ☐ Species Life History Studies
- ☒ Watershed Planning/Implementation
- ☐ Education
- ☐ Fish Screen Evaluations - Alternatives and Biological Priorities

Indicate the geographic area of your proposal (check only one box):

- ☐ Sacramento River Mainstem
- ☒ Sacramento Tributary: Putah Creek
- ☐ Delta
- ☐ East Side Delta Tributary: _____
- ☐ Suisun Marsh and Bay
- ☐ San Joaquin Tributary: _____
- ☐ San Joaquin River Mainstem
- ☐ Other: _____
- ☐ Landscape (entire Bay-Delta watershed)
- ☐ North Bay: _____

Indicate the primary species which the proposal addresses (check no more than two boxes):

- ☐ San Joaquin and East-side Delta tributaries fall-run chinook salmon
- ☐ Winter-run chinook salmon
- ☐ Spring-run chinook salmon
- ☐ Late-fall run chinook salmon
- ☐ Fall-run chinook salmon
- ☐ Delta smelt
- ☐ Longfin smelt
- ☐ Splittail
- ☐ Steelhead trout
- ☐ Green sturgeon
- ☐ Striped bass
- ☒ Migratory birds

COVER SHEET (PAGE 2 of 2)

May 1998 CALFED ECOSYSTEM RESTORATION PROPOSAL SOLICITATION

Indicate the type of applicant (check only one box):

☐	State agency	☐	Federal agency
☐	Public/Non-profit joint venture	☐	Non-profit
☒	Local government/district	☐	Private party
☐	University	☐	Other: _____

Indicate the type of project (check only one box):

☒	Planning	☐	Implementation
☐	Monitoring	☐	Education
☐	Research		

By signing below, the applicant declares the following:

(1) the truthfulness of all representations in their proposal;

(2) the individual signing the form is entitled to submit the application on behalf of the applicant (if applicant is an entity or organization); and

(3) the person submitting the application has read and understood the conflict of interest and confidentiality discussion in the PSP (Section II.K) and waives any and all rights to privacy and confidentiality of the proposal on behalf of the applicant, to the extent as provided in the Section.

(Signature of Applicant)

UPPER PUTAH CREEK WATERSHED MANAGEMENT PLAN

EXECUTIVE SUMMARY

Applicant: Lake County Flood Control and Water Conservation District

The Upper Putah Creek Watershed Management Plan (Plan) is one of the initial steps in the process of improving the ecosystem of the Upper Putah Creek watershed (Watershed). The Plan will identify and evaluate options to improve the health of the Watershed. The watershed is located upstream of Lake Berryessa. The majority of the watershed is in southern Lake County, with portions in Napa County.

The Plan will identify the best practices to improve watershed health. The Plan will provide a tool to the Upper Putah Creek Stewardship and participating agencies to begin implementation of watershed restoration activities in the Watershed. The Plan will consider:

- Restoration of lost and or severely impacted riparian zones,
- Enhancement of riparian systems, including enhancement of instream aquatic habitat and shaded riverine aquatic habitat,
- Reduction of flood risk with non-structural measures,
- Meadow and/or seasonal wetland restoration,
- Restoration of physically and hydrologically isolated floodplains.

The Plan will be prepared by the U.S. Army Corps of Engineers, Sacramento District (USACE), and the USDA Natural Resources Conservation Service (NRCS), with direction provided by the Lake County Flood Control and Water Conservation District (FCD). The FCD will manage the project in cooperation with the Upper Putah Creek Stewardship Group (UPS), and numerous stakeholders. NRCS has committed a Hydrologic Unit Planning (HUP) Team to perform the Resource Inventory for the Watershed. The USACE will utilize the Resource Inventory to evaluate the alternatives and make recommendations for management of the Watershed.

The Plan will be completed within 18 months of initiation of the study. Tasks include:

- Public Involvement and Stakeholder Coordination Program: Public meetings, workshops, newsletters and maintenance of an Administrative Record will insure the public is an active part of the Plan scope formulation.
- Baseline Water Resource Studies: An analysis of existing and/or available hydrology and hydraulic information. The information will be used to establish a baseline for key water resource parameters including, surface and ground water resource inventory and analysis, surface flow/ground water storage and withdraw relationships, and storage potential.
- Streambank Stabilization and Non-structural Flood Damage Reduction Studies: Existing data and field visits will be used to develop alternatives to improve watershed conditions.
- Streambank and Riparian Restoration Studies: . Site visits, historic and current aerial photographs will be used to identify the range, size, duration and health of previously existing habitat. This will used to determine future habitat restoration that is appropriate in size, type and location with historic conditions.
- Environmental Studies: An Environmental Assessment/Initial Study will be prepared for the Plan.
- Cultural Resource Studies: Cultural resources in the watershed potentially affected by the alternatives, and their potential impacts, will be evaluated.

- Plan Formulation: Project alternatives and plans described above will be formulated to meet the study objectives. Plan formulation will require close coordination of all stakeholders and participants.
- Programs and Project Management Documents: The USACE Project Management Division requires certain documents to track the project, maintain budget, and monitor the project schedule.

The Plan will recommend locations and methods for restoration of the watershed. Implementation of the Plan will alter the hydrograph and reduce fine sediment replenishment, resulting in improved storage characteristics in Lake Berryessa. Improvements in storage will benefit the Bay-Delta by allowing more flexibility in summer releases and improved water quality. Habitat restoration in the Watershed will directly benefit migratory birds, and indirectly impact spawning salmonids in Lower Putah Creek.

The budgeted cost for preparation of the Plan is $600,000. The USACE has budgeted $300,000 and NRCS has budgeted $100,000 for preparation of the Plan. We are requesting funding of $200,000 in this application to pay the balance of Plan preparation. In addition to the cost of the Plan, the FCD will provide staff support for administration of the project at an estimated cost of approximately $25,000.

The FCD has a demonstrated history of completing grant projects and has a working relationship with the USACE and NRCS. The project managers for the FCD, USACE and NRCS are experienced with handling multiple complicated projects and interacting with other agencies.

New monitoring programs are not included in the Scope of Work. The Plan will provide recommendations for a long-term monitoring program for ecological health of the Watershed. Local stakeholders have recently reactivated the USGS Putah Creek near Guenoc stream gage to monitor flows leaving the primary study area.

The project will be closely coordinated between the FCD, USACE, NRCS, UPS and other local stakeholders. The appendices include some letters of support from local stakeholders. The Plan is consistent with the goals Environmental Restoration Project Plan (ERPP, Vol. II, p. 323), as well as the water quality and storage programs.

UPPER PUTAH CREEK WATERSHED MANAGEMENT PLAN

Applicant:
Lake County Flood Control
and Water Conservation District
255 N. Forbes Street
Lakeport, CA 95453
(707)263-2341
FAX (707)263-7748

Contact:
Robert L. A. Lossius
Deputy Director of Public Works-Water Resources
Bob_L@www.co.lake.ca.us

Technical Contact:
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tsmythe@pacific.net

Financial Contact:
Pat Beristianos
Pat_B@www.co.lake.ca.us

Government Agency
Tax Exempt
Tax ID No. 94-6000825

Participants/Collaborators:
Upper Putah Creek Stewardship
East Lake Resource Conservation District
Lake County Flood Control and Water Conservation District
Hidden Valley Community Services District
Collayomi County Water District
Middletown Rancheria
Magoon Estates Ltd.
U.S. Army Corps of Engineers, Sacramento District
USDA Natural Resources Conservation Service

RFP Project Group G:
Local Watershed Stewardship

UPPER PUTAH CREEK WATERSHED MANAGEMENT PLAN

PROJECT DESCRIPTION

Project Description and Approach:

The Upper Putah Creek Watershed Management Plan (Plan) is one of the initial steps in the process of improving the ecosystem of the Upper Putah Creek watershed (Watershed). The Plan will identify and evaluate options to improve the health of the Watershed. The watershed is located upstream of Lake Berryessa, see attached location map. The majority of the watershed is in southern Lake County, with portions in Napa County.

The Plan will consider:

- Restoration of lost and or severely impacted riparian zones,
- Enhancement of riparian systems, including enhancement of instream aquatic habitat and shaded riverine aquatic habitat,
- Reduction of flood risk with non-structural measures,
- Meadow and/or seasonal wetland restoration,
- Restoration of physically and hydrologically isolated floodplains.

The Plan will identify the best practices to improve watershed health. The Plan will provide a tool to the Upper Putah Creek Stewardship and participating agencies to begin implementation of watershed restoration activities in the Watershed.

The Plan will be prepared by the U.S. Army Corps of Engineers, Sacramento District (USACE), and the USDA Natural Resources Conservation Service (NRCS), with direction provided by the Lake County Flood Control and Water Conservation District (FCD). The FCD will manage the project in cooperation with the Upper Putah Creek Stewardship Group (UPS), East Lake Resource Conservation District, the Hidden Valley Community Services District, the Collayomi County Water District, Middletown Rancheria, and Magoon Estates Ltd. NRCS has committed a Hydrologic Unit Planning (HUP) Team to perform the Resource Inventory for the Watershed. The USACE will utilize the Resource Inventory to evaluate the alternatives and make recommendations for management of the Watershed. The Appendices include letters of support form some of the participants.

Proposed Scope of Work:

The following is a detailed description of the study tasks and the scope of work to be performed. The tasks and scope for each are based on the results of the USACE's Expedited Reconnaissance Study and Project Study Plan (PSP), including associated meetings, and evaluation of the problems, opportunities, and potential solutions in the Watershed. The USACE will be responsible for completion of the scope of work. Tasks and subtasks to be accomplished by the NRCS HUP Team are included in the appendices. These tasks are to be completed in an 18-month period following initiation of the study.

Public Involvement and Stakeholder Coordination Program:

Time Required: 18 months

Budget: $20,000

Deliverable: A comprehensive watershed plan that is developed with local stakeholder involvement and reflects the input and needs of the community.

The following subtasks will be conducted to provide an extensive public involvement program throughout the course of the study.

- Due to the involvement of a variety of local government, non-profit, and tribal entities, an Administrative Record (AR) will be established for the cataloging and storage of study documents. The purpose of the AR is to provide the public the same opportunities as technical and project management staff have to review study related data. The AR will be located in the study area. The FCD and the USACE will store duplicates of the AR.
- Public notices will be printed and broadcasted in local media outlets for all public involvement program activities and notifying the public of the Plan's progress.
- A master mailing list will be developed and maintained. The list will contain all key stakeholders and members of the public who express an interest in the project.
- A newsletter will be distributed on a predetermined schedule to everyone on the mailing list. The newsletter will also be posted on the County's watershed web-site. The newsletter will include information regarding upcoming technical activities of the study, recently completed technical activities and findings, study schedule and milestones, local sponsor activities, and upcoming public events.
- Conduct Public Meetings: A total of five public meetings will be conducted in the study area. The initial meeting will be designed to elicit stakeholder and general public input on the issues and problems and opportunities that should be considered as alternatives for environmental restoration and flood damage reduction. Subsequent meetings will occur in coordination with the completion of major milestones.
- A minimum of five stakeholder workshops will be held. The workshops will be more focused in scope and smaller in scale than the public meetings. The format will be designed so that interested stakeholders will be able to engage in round-table discussions to reach recommendations, solutions and conclusions on specific technical issues.
- Provide a formal public review period for related National Environmental Protection Act (NEPA) and California Environmental Quality Act (CEQA) documents.
- A public education program will be conducted to educate the public on the Plan development process, public participation activities to support the stewardship watershed planning efforts, locally organized and low-cost restoration efforts that can assist in implementation of the Plan, including training in land use, irrigation and runoff management, and implementation of a stream channel maintenance plan.

Baseline Water Resource Studies:

Time Required: 5 months

Budget: $130,000

Deliverable: A technical memorandum will be provided that briefly summarizes the water resource studies and recommendations.

This task will be an analysis of existing and/or available hydrology and hydraulic information. The information will be used to establish a baseline for key water resource parameters including, surface and ground water resource inventory and analysis, surface flow/ground water storage and withdraw relationships, and storage potential. The information will be used to refine the alternatives and determine their preliminary feasibility. Subtasks include:

- Existing maps and available graphics will be used to prepare base maps. As a minimum, maps will be created for flood-prone areas, watershed boundaries and erosion prone areas.

- Existing data and studies will be used as the primary means of evaluation. Data collection will focus on information needed to draw associations between flooding, erosion and sedimentation and the feasibility of the alternatives. As a minimum, studies will include flood flow frequency and duration analyses, historical peak flows and hydrographs, flow duration analyses, and stream hydraulics.
- Ground water storage, yield and withdraw capacity will be evaluated. The analysis will include surface flow/ground water storage relationships, the feasibility of ground water recharge and the potential effects on downstream flows.
- Current and future water requirements will be evaluated. Residential, industrial, municipal and agricultural water requirements will be evaluated.
- Preliminary determinations of the feasibility of alternatives will be made. Evaluation will address whether alternative implementation will provide viable solutions to environmental, flood control and water supply needs.

Streambank Stabilization and Non-structural Flood Damage Reduction Studies:

Time Required: 16 months
Budget: $120,000
Deliverable: Watershed Management Plan

Streambank stabilization and non-structural flood damage reduction studies will be conducted to further develop alternatives to improve Watershed conditions. Subtasks include:

- Historic aerial photographs will be utilized to understand the historic stream channel movement and sediment deposition patterns. Information obtained will include historic creek features prior to increased land development, historic land use changes, floodplain habitat impacts, in-stream channel changes, riparian vegetation changes, and the health and extent of aquatic and riparian habitats.
- Legal flood zones will be mapped concurrent with the Baseline Water Resource Studies.
- A watershed-based erosion damage analysis will be provided. Existing data, field visits and photographs will be used to document areas subject to erosion loss. Loss of and damage to habitats, infrastructure, real property, and agricultural property and products will be identified. Real-time fluvial geomorphic impacts to the watershed will be documented to educate the public on land and water use activities that impact erosion. The areas with the highest erosion potential will be identified.
- Using the analysis of watershed erosion conditions, non-structural erosion control and bank stabilization measures will be developed. Techniques will be evaluated for applicability to the full range of geomorphic and geographic features in the Watershed.
- In order to ensure flood control capacity and proper implementation of erosion control and bank stabilization measures, as stream channel maintenance and monitoring plan will be developed for the Watershed. Stream channel maintenance plans will be developed to accommodate both the goals of flood damage reduction and environmental restoration.

Streambank and Riparian Restoration Studies:

Time Required: 16 months
Budget: $85,000
Deliverable: Watershed Management Plan

Erosion control and streambank stability measures are also a function of environmental restoration measures. Historic and current aerial photographs will be used to identify the range, size, duration and health of previously existing habitat. This will used to determine future habitat restoration that is appropriate in size, type and location with historic conditions. Subtasks include:

- An ecosystem assessment of key ecosystem resource areas conducted. The assessment will focus on streambank habitat, riparian vegetation, and fisheries habitat. The types and conditions of habitat, specific vegetation species, and aquatic and terrestrial species present will be included.
- Ecosystem restoration objectives will be developed for the study area. Objectives will be practical, realistic, and will focus on reestablishment of habitat types and species indigenous to the study area. Objectives will be developed in coordination with flood damage reduction and bank stabilization recommendations to ensure their compatibility.

Environmental Studies:

Time Required: 9 months
Budget: $40,000
Deliverable: Environmental Assessment/Initial Study

An Environmental Assessment (EA) will be prepared as required by NEPA. Concurrently, an Initial Study (IS) will be prepared as required by CEQA. The key issues likely to be analyzed in the EA/IS include potential impacts on hydrology, water quality, land use, biological resources, and cultural resources. This task will be on going throughout the duration of the study.

Cultural Resource Studies:

Time Required: 8 months
Budget: $10,000
Deliverable: A Cultural Resource Report will be prepared.

Cultural resources in the watershed potentially affected by the alternatives, and their potential impacts, will be evaluated. These studies will be closely coordinated with the Middletown Rancheria.

Plan Formulation:

Time Required: 18 months
Budget: $115,000
Deliverable: Upper Putah Creek Watershed Management Plan

Project alternatives and plans described above will be formulated to meet the study objectives. Plan formulation will require close coordination of all stakeholders and participants. Subtasks include:

- The USACE Project Study Plan (PSP) will be scoped and revised by the participants and stakeholders to reflect the input received after the initial public meeting. Participants will identify critical issues, focus study objectives and develop and refine conceptual alternatives. This subtask will be completed within three months of initiation of the project.
- Conceptual alternatives will be evaluated and further developed so the technical efforts in the tasks can assess their respective effects and determine preliminary feasibility. Information from technical task efforts will be used to compare alternatives and the without-project conditions. The alternatives will be formulated into an initial watershed management plan. The initial plan will present the framework of alternatives using comprehensive watershed management approach that will prescribe specific actions to address flood control, erosion and sedimentation, water supply issues, and environmental restoration. An initial cost-benefit analysis will be used to compare plan alternatives. This subtask will be completed within twelve months of initiation of the project.
- The USACE, NRCS, FCD, and other key stakeholders will review the initial watershed management plan. The alternatives of the plan will be evaluated and compared based on their perceived

preliminary feasibility and ability to meet project needs. The need for refinement and/or recommendations for further detailed studies will be presented. A public meeting will be held to receive public input on the plan. This subtask will be completed within twelve to fifteen months of initiation of the project.

- Based on the input from the initial plan review, a final plan will be selected. The information form the subtasks above will be used to prepare a preliminary feasibility report to recommend a plan for implementation of alternatives and identify the need for additional, more detailed studies if appropriate. The selection of the final plan will be made within eighteen months of initiation of the project.

Programs and Project Management Documents:

Time Required: 18 months
Budget: $50,000
Deliverable: Periodic reports described below

The USACE Project Management Division requires certain documents to track the project, maintain budget, and monitor the project schedule. Subtasks include:

- The USACE project manager will coordinate and complete the study tasks including scheduling , monitor progress on study milestones, monitoring the budget, inter-organizational coordination, meeting and conference preparation and presentation, ensure production of quality reports, and initiate periodic meetings with the participants.
- Over the course of the study, the USACE will prepare a series of reports and other information documents useful in the overall management of the study. The documents are:
  - A Justification Sheet is prepared twice a year. It summarizes the study status, expenditures to date, and budget requirements.
  - A Project Executive Summary (PES) is prepared monthly. This report will be the principal document for reporting study status, milestone forecasts and approvals, study cost change approvals, and forecasts at the executive level.
  - A monthly status report is prepared monthly. This report documents all important dates and milestones, meetings, task completions, and expenditures of funds. This report supports the PES report.
  - A Funds Management Report is prepared monthly. This report documents budgets and expenditures for each task, resource and budget type. A year-end report is also prepared.
  - A Schedule and Cost Change Request is used to change the PSP, and is required to change the approved study cost or major study milestones.
  - Work orders are used to assign work tasks during the study.

Project management activities by the FCD staff will be conducted at the FCD's expense and will not be requested for reimbursement.

Expected Benefits:

The Plan will identify areas and methods for restoration in the Watershed. Restoration of the Watershed will alter the hydrograph by increasing summer flows in the upper watershed areas. This will improve the storage characteristics of Lake Berryessa, improving the summer and fall release abilities. The Plan will also recommend changes in management of the Watershed that will result in reduction in fine sediment replenishment, alterations of channel form, and restoration of lost riparian zones. The impacts of grazing,

gravel mining, urbanization, and forestry; and agricultural practices will be addressed, and recommendations presented to reduce their adverse impacts on the Watershed.

The Plan and subsequent actions do not directly impact the primary species in the Bay-Delta watershed. The restoration of the Watershed will modify the low flow characteristics of the upper watershed, improving the ability of Lake Berryessa to provide summer and fall flows for restoration of salmon and steelhead trout populations below the dam. The Plan is anticipated to recommend specific areas in the Watershed for improvement of instream aquatic habitats and shaded riverine aquatic habitats. The improved health of riparian areas will directly benefit migratory birds, a secondary population.

Reduction of sediment generation in the Watershed will reduce the sedimentation in Lake Berryessa, helping to preserve its storage potential. Depending on the CALFED alternative implemented, maintaining the storage potential in Lake Berryessa will benefit water quality in the Bay-Delta through reoperation flexibility. Maintenance of storage is critical for the health of the Bay-Delta.

Background and Ecological/Biological/Technical Justification:

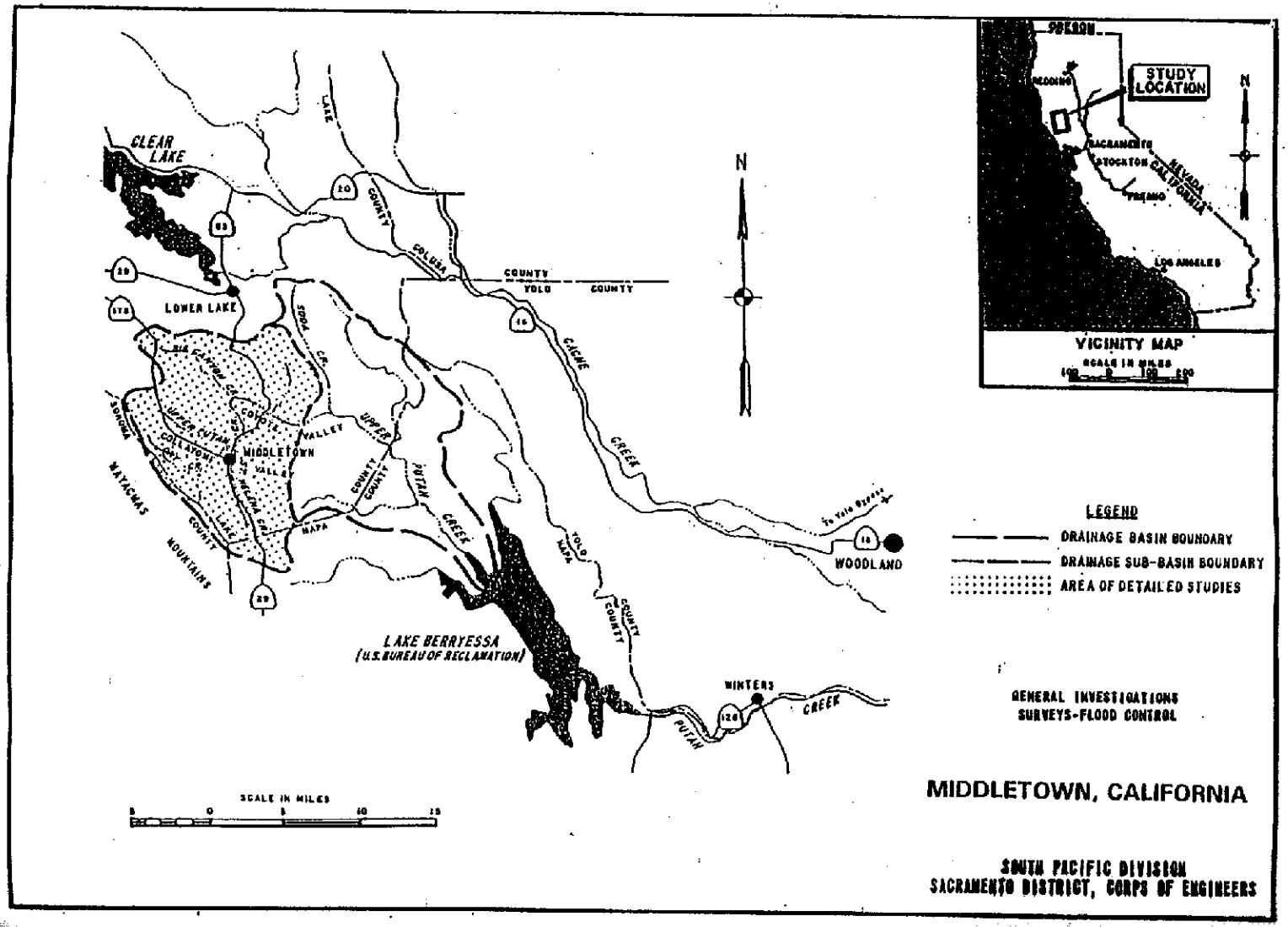
As described above, the restoration of the Watershed is consistent with CALFED goals and objectives. The Plan is consistent with the goals of the Environmental Restoration Project Plan (ERPP). Page 323, Volume II of the ERPP recommends developing a comprehensive watershed management plan for the Upper Putah Creek Watershed. The Upper Putah Creek Stewardship and interested agencies began this Project prior to the release of the ERPP. An Expedited Reconnaissance Study has been completed by the USACE and negotiations are on going on the USACE's PSP and the scope of work for the NRCS HUP Team. The Expedited Reconnaissance Study and Draft PSP are available form the FCD and the USACE.

Monitoring and Data Evaluation:

Monitoring and data evaluation are described in the Proposed Scope of Work. The Plan will provide recommendations for a long-term monitoring program for ecological health of the riparian and riverine habitats in the Watershed. Local stakeholders have recently reactivated the USGS Putah Creek near Guenoc stream gage after 20 years of non-operation. These stream gage records will be useful in documenting changes in stream flow characteristics as the Project progresses.

Implementability:

As described in the Proposed Scope of Work, the Plan will include preparation of an EA/IS as required by NEPA and CEQA. The project will be closely coordinated between the USACE, NRCS and the FCD. The Plan has an integral public coordination/outreach program and the support of several local groups, as previously described.



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UPPER PUTAH CREEK WATERSHED MANAGEMENT PLAN

COSTS AND SCHEDULE TO IMPLEMENT PROPOSED PROJECT

Budget Costs:

The Upper Putah Creek Stewardship Group and the Lake County Flood Control and Water Conservation District (FCD) have been participating in the development of a watershed management plan with the U.S. Army Corps of Engineers (USACE) since 1996. In 1996, Congress funded an Expedited Reconnaissance Study for the Upper Putah Creek Watershed (Watershed). The Study was completed in Spring 1997 and recommends the development of a comprehensive Watershed Management Plan for the Watershed (Plan). Preparation of the Plan is the next step in the process. The anticipated cost of the Plan is $600,000. The USACE have budgeted $300,000 (50%) for the next eighteen months to complete the Plan. The USDA Natural Resources Conservation Service (NRCS) has committed a Hydrologic Unit Planning Team (HUP Team) to assist with the development of the Plan by compiling and analyzing the existing data for the watershed. NRCS staff will work closely with the USACE staff to ensure the Plan meets the requirements of the two agencies and the sponsor (FCD). Staff meetings have been conducted to coordinate these efforts in June 1998. We are requesting the remaining $200,000 be paid from this program.

All work is to be contracted to the USACE and the NRCS as a service contract. The USACE and NRCS are currently developing their respective budgets to determine how much of the budget for each task is paid by which agency. Only work performed by the USACE will be paid by the grant. NRCS does not require a matching share. Therefore, the budget below does not reflect the split in costs between the two agencies. Administrative and review costs incurred by the FCD are not included in the budget, nor are they being requested for reimbursement. FCD costs for administering the project are estimated at $25,000.

Project Task	Budget – Service Contracts
Public Involvement and Stakeholder Coordination Program	$20,000
Baseline Water Resource Studies	$130,000
Streambank Stabilization and Non-structural Flood Damage Reduction Studies	$120,000
Streambank and Riparian Restoration Studies	$85,000
Environmental Studies	$40,000
Cultural Resource Studies	$10,000
Plan Formulation	$115,000
Programs and Project Management Documents	$50,000
Contingencies	$30,000
Total	$600,000

I-010849

Schedule Milestones:

The proposed study milestones and schedule for the Plan are shown below. The final Plan is scheduled to be submitted eighteen months after initiation.

Study Milestones	Elapsed Time (months)
Initiate Watershed Study	0
Initial Public Scoping Meeting	2
Preliminary Scoping of Initial Watershed Management Plan and Stakeholder Review	4
Water Resources Technical Memorandum	5
Cultural Resources Report	8
Environmental Documents	9
Draft Watershed Management Plan	12
Public Involvement for Review of Draft Watershed Management Plan	13
Final Watershed Management Plan	18

Third Party Impacts:

Implementation of the Plan could result in third party impacts to all property owners in the watershed, especially to riparian property owners and gravel mining interests. Mitigation measures will be identified during preparation of the Plan. Mitigation measures may include purchase of riparian corridor easements, purchase of mining rights. Third party impacts may include increased watershed yield and improved summer base flows. This would be a beneficial impact to water users within the Watershed and downstream.

UPPER PUTAH CREEK WATERSHED MANAGEMENT PLAN

APPLICANT QUALIFICATIONS

The Lake County Flood Control and Water Conservation District (FCD) is a separate political subdivision of the State of California. The FCD is administered by the Lake County Department of Public Works, including oversight and accounting functions.

The FCD has worked extensively to improve the Clear Lake watershed, the headwaters of the Cache Creek Watershed. It has successfully obtained and completed the following EPA grants:

1978: Watershed Management Planning, Section 208
1990: Clear Lake Diagnostics/Feasibility Study, EPA Clean Lakes Program, Section 314
1993: Scotts Creek Watershed Demonstration Project, EPA Non-point Source, Section 319

FCD staff are currently working on the Clear Lake Watershed Assessment, an EPA Section 205j project. The FCD also has ongoing grants with the USDA Forest Service for watershed assessment and watershed rehabilitation. In May 1998, the FCD was awarded a Proposition 204 Upper Tributary Watershed Grant for the Middle Creek Ecosystem Restoration Project. This involves restoration of up to 1,200 acres of open water, and perennial and seasonal wetlands.

The FCD wishes to facilitate the restoration of the Putah Creek Watershed, as it is currently doing in the Cache Creek Watershed.

The Project Manager will be Thomas R. Smythe, Water Resources Engineer. Mr. Smythe has a Bachelor of Science Degree in Civil Engineering and a Master of Science in Environmental Engineering. Mr. Smythe has been an employee of the District and County for ten years. Mr. Smythe was instrumental informing the Lake County Coordinating Resource Management Committee in 1989 and obtaining the EPA Clean Lakes Grant. Mr. Smythe was the project manager for the Clean Lakes Grant. Mr. Smythe has been the primary contact with the U.S. Army Corps of Engineers (USACE) during preparation of the Middletown Expedited Reconnaissance Study and is familiar with the project and USACE procedures. Mr. Smythe has also worked extensively with the USDA Natural Resources Conservation Service (NRCS) with planning and design projects, and is familiar with NRCS procedures. Mr. Smythe has also been responsible for tracking the CALFED process for Lake County and is familiar with the CALFED goals and objectives.

Mr. Smythe will ensure the Upper Putah Creek Stewardship Group (UPS) and other participants are involved in the development and review of the Plan. Mr. Smythe has served as technical advisor to the UPS for two years and has assisted in their efforts to restore the watershed. Mr. Smythe has worked with UPS and other participants in developing the scope of work for the Plan.

The UPS is headed by Helen Whitney. Ms. Whitney is a former Lake County Supervisor and currently serves on the Board of the Eastlake Resource Conservation District. She is familiar with local, state and federal government project requirements. Ms. Whitney organized UPS in January 1996 in response to flooding and erosion concerns within the Putah Creek watershed. UPS was instrumental in obtaining the funding for the Expedited Reconnaissance Study and assisting in its development. Ms. Whitney and UPS are committed to seeing this project through to completion.

Project accounting will be by the Public Works accounting staff. The accounting staff will track all costs using project accounting software. The staff handles several hundred thousand dollars of miscellaneous grants each year, including public road, public safety and District grants. The accounting staff is familiar with grant requirements and the necessary project tracking. The Public Works accounting system is audited annually to ensure compliance with State financial tracking requirements.

Preparation of the Upper Putah Creek Watershed Management Plan (Plan) will be by the USACE Planning Division. Work will be performed by the USACE and NRCS.

Ms. Adrienne Carter will be the USACE Study Manager for the Plan. Ms. Carter and other Planning staff with the USACE are familiar with the technical, administrative and project management requirements of grants and keeping projects on time and under budget.

Bill Cunningham will be the NRCS Study Manager during preparation of the Plan. Mr. Cunningham and other Planning staff with the NRCS are familiar with the technical, administrative and project management requirements of grants and keeping projects on time and under budget.

We do not aware of any potential conflicts of interest, either real or apparent, with any of the County, District, USACE or NRCS staff members.

UPPER PUTAH CREEK WATERSHED MANAGEMENT PLAN

COMPLIANCE WITH STANDARD TERMS AND CONDITIONS

The Lake County Flood Control and Water Conservation District (FCD) finds all the terms and conditions in Attachment D agreeable and will comply with them. Following are the forms *Nondiscrimination Compliance Requirement* and *Noncollusion Affidavit*.

I-010853

ITEM 7

NONDISCRIMINATION COMPLIANCE STATEMENT

COMPANY NAME
Lake County Flood Control and Water Conservation District

The company named above (hereinafter referred to as "prospective contractor") hereby certifies, unless specifically exempted, compliance with Government Code Section 12990 (a-f) and California Code of Regulations, Title 2, Division 4, Chapter 5 in matters relating to reporting requirements and the development, implementation and maintenance of a Nondiscrimination Program. Prospective contractor agrees not to unlawfully discriminate, harass or allow harassment against any employee or applicant for employment because of sex, race, color, ancestry, religious creed, national origin, disability (including HIV and AIDS), medical condition (cancer), age, marital status, denial of family and medical care leave and denial of pregnancy disability leave.

CERTIFICATION

I, the official named below, hereby swear that I am duly authorized to legally bind the prospective contractor to the above described certification. I am fully aware that this certification, executed on the date and in the county below, is made under penalty of perjury under the laws of the State of California.

OFFICIAL'S NAME
Robert L. A. Lossius

DATE EXECUTED
July 1, 1998

EXECUTED IN THE COUNTY OF
Lake

PROSPECTIVE CONTRACTOR'S SIGNATURE

PROSPECTIVE CONTRACTOR'S TITLE
Deputy Director of Public Works - Water Resources

PROSPECTIVE CONTRACTOR'S LEGAL BUSINESS NAME
Lake County Flood Control and Water Conservation District

I-010854

ITEM 10

Agreement No. _____

Exhibit _____

NONCOLLUSION AFFIDAVIT TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID FOR PUBLIC WORKS

STATE OF CALIFORNIA)
)ss
COUNTY OF Lake)

Robert L. A. Lossius (name), being first duly sworn, deposes and says that he or she is Deputy Director of Public Works - Water Resources (position title) of Lake County Flood Control and Water Conservation District (the bidder).

the party making the foregoing bid that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

DATED: June 30, 1998 By Robert L. A. Lossius
(person signing for bidder)

Subscribed and sworn to before me on

See Attached Notary Certificate

(Notary Public)

6-30-98

(Notarial Seal)

I-010855

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of CALIFORNIA

County of LAKE

On JUNE 30, 1998 (Date) before me, JANET L. CONNOR (Name and Title of Officer (e.g., "Jane Doe, Notary Public")),

personally appeared ROBERT LEW ALLEN LOSSIUS (Name(s) of Signer(s))

☐ personally known to me – OR – ☐ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

JANET L. CONNOR
Commission # 1135662
Notary Public — California
Lake County
My Comm. Expires Apr 26, 2001

WITNESS my hand and official seal.

Janet L Connor
Signature of Notary Public

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: Non-collusion Affidavit re Public Works

Document Date: 6-30-98 Number of Pages: 2

as Part of a Larger Document re Grant Op

Signer(s) Other Than Named Above: 0

Capacity(ies) Claimed by Signer(s)

Signer's Name: ROBERT LEW ALLEN LOSSIUS

☑ Individual
☐ Corporate Officer
Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Attorney-in-Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other: _____

RIGHT THUMBPRINT OF SIGNER
Top of thumb here

Signer Is Representing:
SELF

Signer's Name: _____

☐ Individual
☐ Corporate Officer
Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Attorney-in-Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other: _____

RIGHT THUMBPRINT OF SIGNER
Top of thumb here

Signer Is Representing:

I –010856

I-010856

UPPER PUTAH CREEK WATERSHED MANAGEMENT PLAN

APPENDICES

1. Resolution by Board of Directors, Lake County Flood Control and Water Conservation District
2. Natural Resources Conservation Service List of Tasks
3. Letters of Support
   Upper Putah Creek Stewardship
   East Lake Resource Conservation District
   Callayomi County Water District
   Hidden Valley Lake Community Services District
   Anderson Springs Community Services District
   Assemblymember Virginia Strom-Martin

I-010857

BOARD OF DIRECTORS
LAKE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
STATE OF CALIFORNIA

RESOLUTION NO. 98-201

RESOLUTION APPROVING THE APPLICATION FOR GRANT FUNDS
FOR UPPER PUTAH CREEK WATERSHED MANAGEMENT PLAN

WHEREAS, the 1994 Bay-Delta Accord included a commitment to develop and fund ecosystem restoration activities to improve the health of the San Francisco Bay-Delta Ecosystem and watershed; and

WHEREAS, CALFED Bay-Delta has allocated funds for the Delta Tributary Watershed Program; and

WHEREAS, the CALFED Bay-Delta Program, has allocated funds and invited Lake County to submit an Application for State Proposition 204, Federal Bay-Delta Act, and Federal Watershed funds in May, 1998;

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors hereby:

1. Approves the filing of the application for CALFED Bay-Delta Grant Funds for the above project, and
2. Appoints the Deputy Director of Public Works - Water Resources as the sponsor's official representative to sign all necessary applications and grant documents.

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THIS RESOLUTION was passed by the Board of Directors of the Lake County Flood and Water Conservation District at a regular meeting thereof held on June 23, 1998, by the following vote.

AYES: Directors Robey, Larson, Mackey, Merriman, and Talley

NOES: None

ABSENT OR NOT VOTING: None

ATTEST: Kelly F. Cox
Clerk of the Board

By: _____

_____
Chair, Board of Directors

APPROVED AS TO FORM:

Cameron L. Reeves
County Counsel

By: _____

BOARD OF SUPERVISORS
LAKE COUNTY, CAL

Upper Putah Creek Watershed Resources Inventory
March 23, 1998

Watershed Resources Inventory

This watershed resources inventory will address soils, hydrology, water quality, urban rural lands, agriculture, rangeland, forest land and brushland, wildlife habitat, and cultural resources within the Upper Putah Creek Basin/Watershed.

Inventory Preparation

This resources inventory will be prepared by a team of specialists from the Natural Resources Conservation Service (NRCS) in cooperation with the East Lake RCD and the Community Based - Upper Putah Creek Stewardship.

An Initial Step In Managing Resources In The Watershed

This resources inventory will be one of the first steps in developing a plan for managing natural resources in the Upper Putah Creek Watershed.

Use Of The Resources Inventory

The resources inventory information will be published in a report and will also be used to develop a geographical information system (GIS) data base. These two products can be used by the East Lake RCD and the Community Based -Upper Putah Creek Stewardship as basic information to enhance ongoing development of their watershed management plan. The resources inventory and the data base should be considered dynamic, and expanded or modified, as appropriate, as the stewardship committee goes through the process of developing the watershed management plan.
Maps, which display such resources as, soils, land use, and vegetative cover, are some of the products that can be produced by the GIS data base.

Upper Putah Creek Watershed Resources Inventory

Soils

The *Soil Survey of Lake County, California*, May,1989, will be used by the study team's soil scientist to make interpretations and develop predictions of the suitability of specified uses of the various soils found in the watershed. Soils maps will be developed to show (1) soil map units which represent landscapes that have distinctive patterns of soils and (2) soil erosion potential. Several interpretative tables will be developed as appropriate.

Geology

The Geology section will give a broad general description of the major formations that make up the watershed. Additionally, general stream characteristics, such as, sinuosity, will be determined and compared to historical stream conditions. Sediment yield calculations will be derived for existing and post fire conditions. The risk of slope failure throughout the watershed will also be examined.

Hydrology

This section will discuss surface and ground water resources in the upper Putah Creek Watershed. It will include sources and supply, storage, water rights and water allocations. This section will also look at precipitation, runoff, and potential flooding (flood hazards) throughout the entire watershed.

Water Quality

Existing sources of information indicate that the quality of surface and ground water in the watershed is suitable for beneficial purposes. Impacts from point and non-point sources of pollution caused by various activities in the watershed will be looked at in order to describe their effects on water quality.

Rural and Urban Areas

This section will describe the location of rural homesites and urban communities, plus areas designated or planned for future development The proximity to hazards such as flood plains, areas susceptible to mud slides and other erosion hazards, and wildfires will be discussed.

Agriculture

This section will look at the estimated 28,000 acres of irrigable land *(Lake County Planning Department, 1989)*. It will address and identify the areas devoted to crop, orchard, vineyard, grain and pasture production and discuss their potential for expansion throughout the watershed.

Rangeland (Grazingland)

Rangeland provides forage for livestock as well as water and habitat for various forms of wildlife, plus aesthetic values. Rangeland characteristics will be described in this report by using range sites. A range site is a distinctive kind of rangeland that differs from other kinds of rangeland in its ability to grow a representative plant community. These representative plant communities are determined or influenced by soil texture, topography, and climate.

Upper Putah Creek Watershed Resources Inventory

Forest Land and Brushland

This section of the report will describe the major tree (forest land) species and brushland species found in the watershed. The extent and composition of these species and their uses (i.e. timber harvest, recreation, grazing etc.) will be described.

Inv. Fisheries

Biology and Wildlife Habitat

The biology section of the report will describe the major types of vegetative cover that are found in the Putah Creek watershed and the capability of each vegetative cover type to provide suitable habitat for various wildlife species. These cover types and their extent and location will be shown on the vegetative cover map in this report. The California Division of Forestry and Fire Protection's "CALVEG" (*A Classification of California Vegetation*) GIS data base, and other available data bases, maps, and photos, plus field investigations will be used to determine the various types and extent of vegetative cover and habitats within the watershed.

Cultural Resources

Cultural resource literature search and/or site disturbance investigation by a qualified archeologist are required when land treatment measures are being planned for improvement or protection of the natural resource base. Because this can be expensive and, since this report is a resource inventory only with no project activity yet identified, no cultural resource site investigation will be done. Instead, this section of the report tells the reader the necessary steps and procedures that must be followed when any proposed or planned ground disturbing resource enhancements are installed.

Upper Putah Creek Stewardship

A community-based organization
P.O. Box 1019, Cobb, CA 95426
Tel: 707.928.9812 * Fax: 707.928.4528

6/30/98

Re: The CALFED Bay-Delta Program Category III proposal
Upper Putah Creek Comprehensive Watershed Management Plan

The Upper Putah Creek Stewardship, a volunteer organization, has been in existence since January, 1996. Leadership and direction is by local property owners working in cooperation with local, state and federal agencies.

That a plan is needed to address historical flood and erosion problems has been verified by the draft Project Study Plan (PSP) written by the U.S. Army Corps of Engineers. The community, led by the Stewardship, has been involved with the writing of the PSP.

The Stewardship initiated and has helped coordinate the effort for an overall watershed management plan. We are committed to continuing our role.

Sincerely,

Helen Whitney
Coordinator

Lead agency: East Lake Resource Conservation District

East Lake Resource Conservation District
883 Lakeport Blvd. - Lakeport, CA 95453 - Phone (707) 263-4180

June 23, 1998

The CALFED Bay-Delta Program
1416 Ninth Street - Room 1155
Sacramento, CA 95814

Re: Upper Putah Creek Comprehensive Watershed Management Plan
Ecosystem Restoration Projects & Programs

The Board of Directors of EAST LAKE RESOURCE CONSERVATION DISTRICT wishes to reconfirm its support for the Upper Putah Creek Comprehensive Watershed Management Plan.

We have been working closely with the Army Corps of Engineers on this project, acting as local resource coordination directly and through our support of the Upper Putah Creek Stewardship. Further, we requested the assistance of the National Resources Conservation Service to perform a resources inventory of this watershed. We are committed to continue to act in this role.

A watershed management plan is needed to address long-standing flooding and erosion issues, to collect and establish baseline information, and to help educate the general public. Preservation and enhancement of this watershed, a tributary to the Sacramento River Watershed, will prove cost-effective and meaningful to the overall goals of the Bay-Delta Program.

Sincerely,

Jan Calogiaries
for

Phil Garner, Chair

CALLAYOMI COUNTY WATER DISTRICT

TELEPHONE
(707) 987-2180

POST OFFICE BOX 625
MIDDLETOWN, CA 95461

June 30, 1998

The CALFED Bay-Delta Program
1416 Ninth Street - Room 1155
Sacramento, CA 95814

Re: Upper Putah Creek Comprehensive Watershed Management Plan
Ecosystem Restoration Projects & Program

The Board of Directors of Callayomi County Water District wishes to reconfirm its support for the Upper Putah Creek Comprehensive Watershed Management Plan.

We have been working closely with the Army Corps of Engineers on this project, acting as local resource coordination directly and through our support of the Upper Putah Creek Stewardship. Further, we requested the assistance of the National Resources Conservation Service to perform a resources inventory of this watershed. We are committed to continue to act in this role.

A watershed management plan is needed to address long-standing flooding and erosion issues, to collect and establish baseline information, and to help educate the general public. Preservation and enhancement of this watershed, a tributary to the Sacramento River Watershed, will prove cost-effective and meaningful to the overall goals of the Bay-Delta Program.

Sincerely,

Frank Haas

Frank Haas
General Manager

FH/sdb

CALFED.DOC

I-010866

Hidden Valley Lake CSD

COMMUNITY SERVICES DISTRICT

19400 Hartman Road • Middletown, CA 95461-8371
(707) 987-0343 • Fax (707) 987-3237

June 30, 1998

Mr. Lester Snow, Executive Director
The CALFED Bay/Delta Program
1416 Ninth Street, Suite1155
Sacramento, CA 95814

RE: Upper Putah Creek Comprehensive Watershed Management Plan
Ecosystem Restoration Projects & Programs

Dear Mr. Snow:

The Board of Directors of the HIDDEN VALLEY LAKE COMMUNITY SERVICES DISTRICT wishes to reconfirm its support for the Upper Putah Creek Comprehensive Watershed Management Plan.

We have been working through the Upper Putah Creek Stewardship on this project, acting as a local resource. We have been actively involved with giving input to the Army Corps of Engineers and Natural Resources Conservation Service. Further, in addition to our own flood and erosion mitigation efforts, the Hidden Valley Lake Community Services District is interested in educating the general public regarding watershed management, and this Plan would also be of benefit to that goal.

Our Board is committed to continuing our strong support of this Plan.

Sincerely,

Mel Aust

Mel Aust
General Manager

MA/ja
cc: Bob Lossuia, Lake Co. Public Works
Helen Whitney

Anderson Springs Community Service District
Drawer 929
Middletown, CA 95461
(707) 987-0277

June 30, 1998

Lester A. Snow, Executive Director
The CALFED Bay Delta Program
1416 Ninth Street, Room 1155
Sacramento, CA. 95814

Re: Upper Putah Creek Comprehensive Watershed Management Plan

Anderson Springs is a small community northeast of Middletown. Homeowners in our area have incurred flood related damages several times in the past ten years, due to the proximity of structure to flood level waters. The quality of our water for recreational purposes as well as wildlife is of utmost concern to our community.

A watershed management plan is needed to develop solutions for flooding and environmental quality and creek restoration. The Anderson Springs Community Service District is very supportive of the upper Putah Creek Comphrehensive Management Plan.

Yours truly,

Meriel Medrano

Meriel Medrano, Manager
ANDERSON SPRINGS COMMUNITY SERVICE DISTRICT

I —010868

I-010868

Assembly
California Legislature
VIRGINIA STROM-MARTIN
ASSEMBLYMEMBER, FIRST DISTRICT

June 29, 1998

Mr. Bob Lossius, Deputy Director – Water Resources
Lake County Public Works Department
244 North Forbes St.
Lakeport, CA 95453

Dear Mr. Lossius:

I am writing in support of Lake County's application for CALFED Bay-Delta Category III Grant Funds and Lake County's participation in the Upper Putah Creek Comprehensive Watershed Management Plan.

Lake County's sponsorship of the Upper Putah Creek project is truly commendable. By partnering with area landowners, water users, conservation organizations and tribal groups, the county is working to achieve the best possible approach to watershed management. Your collaborative efforts will help to ensure a successful management plan that meets both residents' and environmental needs.

I heartily endorse your application for CALFED Bay-Delta Category III Grant Funding.

Sincerely,

Virginia

Virginia Strom-Martin
Assemblymember, First District

VSM:cg

TOTAL P.02

I —010869